

Reset and healing break-out session summary

Warfighter Nutrition: Advanced Technologies and
Opportunities”
Uniformed Services University of the Health Sciences
Health Affairs and DARPA co-hosts
Day 2 (16 July 2008)

Report Documentation Page			Form Approved OMB No. 0704-0188		
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1. REPORT DATE 16 JUL 2008		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE Reset and Healing				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Uniformed Services University of the Health Sciences				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES Warfighter Nutrition Workshop 15-16 July 2008 (USUHS), The original document contains color images.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	18. NUMBER OF PAGES 6	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Clinical Recommendations

- All hospitalized DOD personnel should be given multiple vitamin / essential fatty acid supplements. The doses should be similar to that which is provided to NASA astronauts
- ASD Health Affairs should have staff assigned to collect knowledge of all clinical DOD studies to prevent duplication and promote coordination

Needed Research: Recommendations

- A pre-deployment, prospective, placebo-controlled, double blind study in a Brigade Combat Team beginning 6 months prior to deployment and lasting 6 months after deployment using supplements including omega-3 fatty acids, and measuring mental health and other outcomes of significance. This could provide evidence that all deployed troops should be given such supplements.

Needed Research: Recommendations

- A retrospective, case control study of PTSD and depression using existing banked serum from the Defense Medical Surveillance System and measuring omega-3 fatty acids, vitamin D, homocysteine, and perhaps CRP and Zn. This could be accomplished in a very short time frame.
- Develop and test a ketogenic diet (which includes omega-3 fatty acids) for critically ill and / TBA patients whose diet is completely controlled.

Needed Research: Recommendations

- Trauma recovery study in a civilian trauma center testing IV omega-3 formulation vs. standard care; should include follow up with enteric feeding.
- Trauma recovery study in a civilian trauma center testing IV glutamine vs. standard care; should include follow up with enteric feeding.

Technology development

- Portable finger stick device to measure omega-6/omega-3 ratio, vitamin D, Glucose during medical evacuation at altitude.
- Low cost fiber optic feeding tube e.g. a better feeding tube placement system
- Finger stick device to measure multiple nutrients and provide individualized nutritional advice